

Title (en)

Parallel-process execution method and multiprocessor-type computer

Title (de)

Paralleles Prozess-Ausführungsverfahren und Mehrprozessorenrechner

Title (fr)

Méthode d'exécution d'un processus parallèle et ordinateur du type multiprocesseur

Publication

EP 1341083 A3 20040616 (EN)

Application

EP 03250990 A 20030218

Priority

JP 2002053383 A 20020228

Abstract (en)

[origin: EP1341083A2] A parallel-process execution method which increases the throughput of the entire system in an environment in which turnaround times of parallel programs are guaranteed. Parallel processes (A1, A2, A3; B1, B2) generated from parallel programs, (A, B) are assigned to time periods in processing periods of processors (1, 2, 3), where the time periods correspond to processor allocation ratios (e.g. 30%, 20%) respectively preset for the parallel programs. Then, it is determined whether or not parallel processes (PA1, PA2, PA3) generated from each parallel program (A, B) can be assigned to idle time periods (which are included in the processing periods and to which no process has been assigned yet) of the processors (1, 2, 3) so that the parallel processes generated from each parallel program can operate in parallel in the idle time periods. When yes is determined, the parallel processes (PA1, PA2, PA3) are additionally assigned to the idle time periods. Finally, the processors (1, 2, 3) execute the parallel processes respectively assigned to the processing periods of the processors. <IMAGE>

IPC 1-7

G06F 9/46

IPC 8 full level

G06F 15/177 (2006.01); **G06F 9/45** (2006.01); **G06F 9/46** (2006.01); **G06F 9/50** (2006.01)

CPC (source: EP US)

G06F 8/451 (2013.01 - EP US); **G06F 9/5066** (2013.01 - EP US)

Citation (search report)

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EP1591896A3; CN104090817A; EP2622474A4; US8707317B2; US9311157B2

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